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Patent Abstracts of Japan

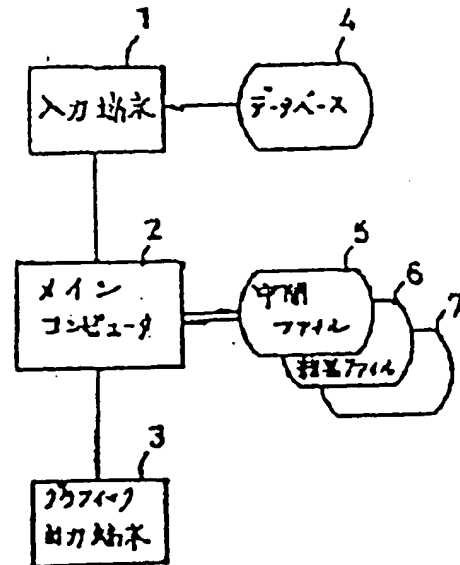PUBLICATION NUMBER   : JP4331125
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TITLE   : PREDICTING METHOD FOR
             APPEARANCE FAILURE IN
             INJECTION MOLDINGS

入力端末 — データベース (1, 4)
メインコンピュータ (2) — 中間ファイル (5), 結果ファイル (6, 7)
グラフィック出力端末 (3)

ABSTRACT : PURPOSE:To easily predict appearance failure such as burning by
splitting the shape of injection moldings into finite elements
and incorporating an analytical modulator for deciding whether
the maximum value of temp. history is at least the prescribed
value at every element into a simulation method.
CONSTITUTION:Shape data obtained by splitting the shape of a mol·
into the fine finite elements, resin data and the data of moldin
conditions are stored in a data base 4. These data are inputted
into a fluidization analytical module M. Therein the flow place
of molding resin is calculated and quantity of heat momently
given to resin is calculated together with the position and time
information and also the temp. history of resin is calculated by
the calculated quantity of heat. Then the calculation result of
the fludization analysis is output to an intermediate file 5.
Therein a predictive index during a packing process of resin is
calculated by using a prescribed burning prediction expression.
In other words, the maximum value of the temp. of resin for the
respective elements within a time wherein resin is packed into a
mold is obtained at every element. Generation of burning is
decided by comparing this maximum value with the prescribed temp
of resin.